

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1993:538717 CAPLUS
 DN 119:138717
 TI Preparation of 2,2-dibromo- or dichloro-1,1,1,3,3,3-hexafluoropropane
 IN Aoyama, Hiroichi; Seki, Eiji; Koyama, Satoru
 PA Daikin Ind Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05097723	A2	19930420	JP 1991-260347	19911008
PRAI	JP 1991-260347		19911008		
OS	CASREACT 119:138717				
AB	The title compds., useful as intermediates for foaming agents, solvents, and refrigerants (no data), are prepared by isomerization of CF ₂ BrCFBrCF ₃ (I) or CF ₂ ClCFClCF ₃ in presence of AlCl _x F _y Br _z (0 ≤ x, y, z < 3; x + y + z = 3) catalysts. I containing 10% CFBr ₂ CF ₃ was refluxed with AlCl ₃ for 5 h to give 98% CF ₃ CB ₂ CF ₃ .				
IT	1652-80-8P, 2,2-Dichloro-1,1,1,3,3,3-hexafluoropropane RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, by isomerization with aluminum halide catalysts)				
RN	1652-80-8 CAPLUS				
CN	Propane, 2,2-dichloro-1,1,1,3,3,3-hexafluoro- (9CI) (CA INDEX NAME)				

F₃C—CCl₂—CF₃

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1990:6948 CAPLUS
 DN 112:6948
 TI Preparation of perhalogenated chlorofluoropropanes by halogen exchange in the liquid and vapor phases and their **isomer** analyses by fluorine-19 NMR spectroscopy
 AU Kvicala, J.; Paleta, O.; Dedek, V.
 CS Dep. Org. Chem., Inst. Chem. Technol., Prague, 16628, Czech.
 SO Journal of Fluorine Chemistry (1989), 43(2), 155-75
 CODEN: JFLCAR; ISSN: 0022-1139
 DT Journal
 LA English
 OS CASREACT 112:6948
 AB The liquid-phase fluorination of pentachlorotrifluoropropane (I) and tetrachlorotetrafluoropropane (II) of defined **isomer** composition at atmospheric or autogenous pressure by means of the Henne-Swartz reagent yielded from 60% to 70% of II and trichloropentafluoropropane (III). The vapor-phase fluorination of I-III with hydrogen fluoride catalyzed by ferric salts on a charcoal support afforded chlorofluoropropanes II and III in addition to dichlorohexafluoropropane in a yield of 13.5% to 79%. Simultaneously an **isomerization** reaction took place in some cases. The **isomer** compns. of the starting substances and products were determined by means of ¹⁹F NMR spectroscopy. The NMR data of the **isomers** are given and compared with the chemical shifts calculated using the published empirical method.
 IT 1652-80-8
 RL: PROC (Process)
 (fluorine-19 NMR of)
 RN 1652-80-8 CAPLUS
 CN Propane, 2,2-dichloro-1,1,1,3,3,3-hexafluoro- (9CI) (CA INDEX NAME)

F₃C—CCl₂—CF₃

L13 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:534048 CAPLUS
 DN 141:89877
 TI Materials and methods for the conversion of hydrofluorocarbons to fluoromonomers
 IN Iikubo, Yuichi; Hedrick, Vicki; Brandstadter, Stephen M.; Cohn, Mitchel
 PA USA
 SO U.S. Pat. Appl. Publ., 11 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004127757	A1	20040701	US 2002-331821	20021230
	CA 2511887	AA	20040722	CA 2003-2511887	20031230
	WO 2004060842	A1	20040722	WO 2003-US41851	20031230
	WO 2004060842	C1	20041021		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003303566	A1	20040729	AU 2003-303566	20031230
	EP 1581468	A1	20051005	EP 2003-815021	20031230
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	CN 1732140	A	20060208	CN 2003-80108107	20031230
	JP 2006512392	T2	20060413	JP 2004-564959	20031230
	US 2005288536	A1	20051229	US 2005-218055	20050831
PRAI	US 2002-331821	A	20021230		
	WO 2003-US41851	W	20031230		

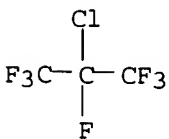
AB Methods and materials for the recovery of valuable hydrofluorocarbons and subsequent conversion to fluoromonomer precursors and fluoromonomers are disclosed. More specifically methods and materials are provided for recovering hydrofluorocarbons such as HFC-227, HFC-236, HFC-245, HFC-125, HFC-134, HFC-143, HFC-152, HFC-32, HFC-23 and their resp. **isomers**. Processes are provided for converting hydrofluorocarbons such as these to fluoromonomer precursors such as CFC-217, CFC-216, CFC-215, CFC-115, CFC-114, CFC-113, CFC-112, HCFC-22, CFC-12, CFC-13 and their resp. **isomers**. Materials, methods, and schemes are provided for the conversion of these fluoromonomer precursors to fluoromonomers such as HFP, PFP, TFP, TFE, and VDF. One example demonstrates the conversion of HFC-227 to CFC-217 and finally to hexafluoropropene.

IT **76-18-6P**, R 217Ba
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(CFC 217ba, fluoromonomer precursor; materials and methods for conversion of hydrofluorocarbons to fluoromonomer precursors and fluoromonomers)

RN 76-18-6 CAPLUS

CN Propane, 2-chloro-1,1,1,2,3,3,3-heptafluoro- (9CI) (CA INDEX NAME)



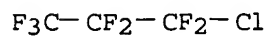
IT **422-86-6P**, CFC 217

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)

(fluoromonomer precursor; materials and methods for conversion of
hydrofluorocarbons to fluoromonomer precursors and fluoromonomers)

RN 422-86-6 CAPLUS

CN Propane, 1-chloro-1,1,2,2,3,3,3-heptafluoro- (9CI) (CA INDEX NAME)



(FILE 'HOME' ENTERED AT 15:52:39 ON 12 MAY 2006)

FILE 'REGISTRY' ENTERED AT 15:54:30 ON 12 MAY 2006

L1 0 S 2,2,-DICHLORO-1,1,1,3,3,3-HEXAFLUOROPROPANE/CN
L2 1 S 2,2-DICHLORO-1,1,1,3,3,3-HEXAFLUOROPROPANE/CN
L3 1 S 2-CHLORO-1,1,1,2,3,3,3-HEPTAFLUOROPROPANE/CN
L4 0 S 2,3-DICHLORO-1,1,1,2,3,3-HEXAFLUOROPROPANE/CN
L5 1 S 1,2-DICHLORO-1,1,2,3,3,3-HEXAFLUOROPROPANE/CN

FILE 'CAPLUS, CAOLD' ENTERED AT 16:01:08 ON 12 MAY 2006

L6 64 S L2
L7 20 S L6 AND 5
L8 4 S L7 AND CHROMIUM

FILE 'REGISTRY' ENTERED AT 16:10:48 ON 12 MAY 2006

L9 1 S 1-CHLORO-1,1,2,2,3,3,3-HEPTAFLUOROPROPANE/CN
L10 0 S L7 AND ISOMER?

FILE 'CAPLUS, CAOLD' ENTERED AT 16:12:56 ON 12 MAY 2006

L11 2 S L7 AND ISOMER?
L12 14 S L3 AND L9
L13 1 S L12 AND ISOMER?
L14 5 S L7 AND RATIO
L15 5 S L14 NOT L11
L16 1 S L15 AND CATALYST
L17 4 S L15 NOT L8
L18 4 S L17 NOT L16
L19 16601 S ?CHLOROFLUORO?
L20 498 S L19 AND ISOMER?
L21 107 S L20 AND CATALYST
L22 2 S L21 AND PURITY
L23 5343 S ?FLUORO? AND ISOMERIZATION